CLAIMS

1	1. A method for efficiently parsing input data, comprising:
2	receiving a data file;
3	retrieving a stored version of the data file and a template/token tree
4	corresponding to the data file, the tree including at least one static node;
5	comparing the stored version of the data file with the received data file to
6	identify non-matching content in the received data file;
7	parsing only the non-matching content to form subtrees;
8	creating a mapping from the template/token tree to the subtrees.
1	2. The method of claim 1 wherein the step of creating the mapping from the tree
2	to the subtrees further comprises:
3	replacing at least one static node of the template/token tree with a token; and
4	creating a mapping from each token to at least one subtree.
1	3. The method of claim 1 wherein creating the mapping from the tree to the
2	subtrees further comprises:
3	adding at least one token node to the template/token tree; and
4	creating a mapping from each token to at least one subtree.
1	4. The method of claim 1 wherein the data file is a web page.
1	5. The method of claim 1 wherein the data file is an HTML file.
1	6. A method for efficiently parsing web pages, comprising:
2	receiving a first HTML page;

3	retrieving a cached version of the HTML page and a template/token tree
4	corresponding to the first HTML page, the tree including at least one static
5	node;
6	comparing the cached version of the HTML page with the received HTML page
7	to identify non-matching content in the received HTML page;
8	parsing only the non-matching content to form at least one subtree;
9	creating a mapping from the template/token tree to the subtrees.
1	7. The method of claim 6 wherein creating the mapping from the tree to the
2	subtrees further comprises:
3	replacing at least one static node of the template/token tree with a token; and
4	creating a mapping from each token to at least one subtree.
1	8. A method for efficiently parsing HTML pages, comprising:
2	receiving a first HTML page;
3	responsive to a determination that a cached version of the HTML page exists:
4	retrieving the cached version of the HTML page and a first
5	template/token tree corresponding to the first HTML page, the
6	first tree including at least one static node;
7	comparing the cached version of the first HTML page with the
8	received HTML page to identify non-matching content;
9	parsing only the non-matching content to form a subtree;
10	associating the first tree and the subtree;
11	responsive to a determination that the cached version of the HTML page does
12	not exist:
13	parsing the received HTML page to form a second template/token
14	tree, the second tree containing at least one static node; and

15	storing the second tree and the received HTML page.
1	9. A method for providing derivative services comprising:
2	receiving a first HTML page;
3	constructing a template/token tree from the received HTML page, the tree
4	comprising a plurality of nodes;
5	determining that at least one node of the tree contains static content;
6	determining that at least one node of the tree contains dynamic content;
7	replacing the nodes of the tree containing dynamic content with tokens;
8	parsing the dynamic content to form subtrees; and
9	mapping the tokens to the subtrees.
1	10. A method of providing derivative services, comprising:
2	receiving a request for derivative services content from a customer;
3	retrieving data from a plurality of primary service providers on behalf of the
4	customer, by:
5	identifying static content that has been previously retrieved from the
6	primary service providers and stored, and corresponding
7	template/token trees that have also been stored;
8	identifying dynamic content that differs from the previously retrieved
9	content;
10	parsing the dynamic content to form subtrees;
11	adding tokens to the template/token trees;
12	mapping the tokens to the subtrees;
13	creating at least one content page comprising the retrieved data; and
14	providing the created pages to the customer.

1	11. A method for efficiently parsing input data, comprising:
2	receiving a first data file;
3	retrieving a stored template/token tree, the stored template/token tree having
4	content associated with the first data file and containing at least one static
5	node and at least one token;
6	retrieving a second data file, the second data file associated with the first data
7	file;
8	identifying non-matching content present only in the first data file;
9	parsing only the non-matching content of the first data file to form at least one
10	subtree; and
11	mapping at least one of the tokens to at least one of the subtrees.
1	12. The method of claim 11, further comprising:
2	responsive to identifying non-matching content present only in the first file:
3	adding at least one new token to the template/token tree.
1	13. A system for efficiently parsing input data, comprising:
2	at least one virtual browser for retrieving content from primary content servers;
3	an identification engine, communicatively coupled to the virtual browser for
4	identifying retrieved content;
5	a cache, communicatively coupled to the virtual browser and the parsing engine,
6	for storing retrieved content and template/token trees;
7	a comparison engine, coupled to the virtual browser for comparing retrieved
8	content with stored content to identify differing content not stored in the
9	cache;

10	a parsing engine, communicatively coupled to the virtual browser, for parsing
11	content identified by the comparison engine as differing content and forming
12	subtrees from the content; and
13	a content server, coupled to the virtual browser.

1 14. The system of claim 13, further comprising a token master, coupled to the cache, for allocating new tokens to the virtual browser.